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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2013/2014**

COURSE NAME : INTRODUCTION TO FOOD
SCIENCE AND TECHNOLOGY
COURSE CODE : BWD 10303
PROGRAMME : 1 BWD
EXAMINATION DATE : JANUARY 2014
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL THE QUESTIONS
IN THE ANSWER BOOKLET
PROVIDED

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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- Q1**
- (a) Organic foods can be defined into several types. Explain two types of organic food. (6 marks)
 - (b) Discover the benefits and risks of Genetically Modified Foods for Human and Nutrition. (6 marks)
 - (c) Point out the role of government in addressing the causes that lead to the issue of hunger. (8 marks)
- Q2**
- (a) Using a schematic diagram, illustrate the flow chart of a chosen food production. You can choose any cereal, chocolate, biscuits or bread as your product. (5 marks)
 - (b) Compare and contrast the benefit and negative impacts of food processing. (5 marks)
 - (c) By using an example of a food product,
 - (i) Plan a suitable packaging material for your food product distribution. (2 marks)
 - (ii) In making the choice in (i), discuss 5 factors being considered. (5 marks)
 - (iii) Support your choice in (i) by explaining the specific function of the chosen material. (3 marks)
- Q3**
- (a) Describe the classification of foods. (6 marks)
 - (b) Relates the importance between food science and nutrition. (6 marks)
 - (c) “Food X contains calcium that can prevent osteoporosis” or “Food X is rich in Omega 3 to increase mind development” is one of the misleading terms commonly occurring in food labeling. Discuss this issue. (8 marks)
- Q4**
- (a) Illustrate a diagram that show the role of ATP to anabolic and catabolic reactions with explanation. (6 marks)

- (b) Correlate how socioeconomic factors influence on obesity. (6 marks)
- (c) There is a widespread belief that organic food is healthier. In your opinion, discuss this statement. (8 marks)
- Q5**
- (a) Summarize what HACCP is all about. Include in your summary HACCP principles and preliminary steps. (5 marks)
- (b) Interpret the differences in ISO 9001, 9002 and 9003. Relate your explanation on the standards in food production. (5 marks)
- (c) (i) The government has endorsed Food Act 1983 and Food Regulation 1985 designed to ensure foods produced are fit for human consumption. Distinguish the two Acts.
(ii) Deduce five (5) precaution steps in handling a chosen food product that obeys Food Hygiene 2009 Law. (10 marks)

- END OF QUESTION -